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HORNER SUBMITS DATA TO SHOW CONCRETE PAVING IS SUPERIOR

Supervisor Horner has given out "'Macadam pavement is rapidly fallthe statement that he will fight to a ing in disfavor all over the country. finish against the laying of inferior The state of New York has spent \$65,payements on the streets of Honolulu 600,000 upon macadam roads, but a during his administration. He favors few months ago, in popular election ! concrete with sheet asphalt surface, \$50,000,000 was voted which will be simflar to the pavement now being used in tearing up the macadam roads laid in Oakland, and his leaning to- and replacing with concrete. A cuwards this particular brand of road rious fact is that macadam roads were material was acquired at Oakland, factors which made possible the adop-Horner has prepared statistics and trucks and automobiles, to the coun-

other data to support his claim that try; and it is now the mechanical sheet asphalt on a concrete base is transportation agents which are tearthe best type, and some of his data, ing macadam to pieces and necessitatgathered from newspapers throughout ing a heavier type of road constructhe United States, is prepared and tion. This is eventually to be con-

proved with concrete construction, as where traffic is not unusually conpart of the first year's work under the gested, four inches of concrete is sufnew Illinois state aid law, There will ficient." be 20 miles of concrete paving divided among heavy teaming and market Fletcher, state highway of California: roads radiating in all directions into neighboring cities.

"The estimated cost of construction base of a minimum thickness of four is about \$12,000 per mile. "The road is to be 18 feet wide, sur-

inches in center." "Two large contracts for concrete

of Los Angeles, California, in 1913. "The first is for 728,000 square feet of road pavement in Santa Barbara, concrete. On the main streets the concrete base is to be eight inches whick, and on the thick, as the traffic requires, surfaced in width. with 11/2 inches of asphalt. Contract

prices as follows: "Eight-inch base, 11/2-inch surface. 22.4 cents a square foot.

"Six-inch base, same surface, 18 cents a square foot. "Five-inch base, same surface, 16

Four-inch base, same surface, 14 cents a square foot.

cents a square foot.

"The roads are 30 feet wide. "The second is for 61/2 miles of the highway, 21/2 miles between the city limits of Pomona and Ontario, and 4 miles east of Ontario. The specifications call for a road 20 feet wide between Pomona and Ontario, and the four-mile stretch east of Ontario, 18 feet wide; all to be four-inch concrete or one of the bitulithic variants. base with %-inch asphalt, oil and sand

oncrete road was laid in Bellefountain. Ohio, more than 20 years ago and used by heavy traffic ever since, and is still good.

"The pavement consists of a fournch base and a two-inch wearing sur

"The base is of 1:2:4, machine mixed gravel concrete. The wearing surface a 1:1 mixture of cement and bank

"Practically nothing has been ex pended for repairs in over 20 years." "The following is taken from report of Frank E. Rodgers, state highway commissioner of Michigan, read before the good roads congress held Decem-ber 11, 1913, at Detroit:

"'Concrete can no longer be regard ed as in the experimental stage. It has long been accepted as the most suitable material for the foundation of pavements for city streets, no matter what material is used for the wearing surface. The last five years has seen an immense yardage of concrete pave-ments laid in the cities and towns of the country, and a rather large mile-age laid on country highways. "Michigan, Wisconsin, Illinois and

Iowa are the states which seem to have been most active in this work." "Taken from report of Clarence E. Bayley, city engineer of Pomona. read before the League of California Municipalities Convention, 1913:

"'Having had several years' experlence in road building, I have, from a process of elimination, concentrated my thought and efforts towards the perfection and adoption of a form of Portland cement concrete road of a thickness commensurate with the needs of traffic surfaced with a dressing of asphaltum, oil and rock screenings of from 14-inch to 16-inch in thickness as being at once the best and cheapest pavement available.

"Best because of speed and econ omy in construction, and early availability, and because it tends to minimize if not wholly eliminate friction in traffic by reason of the firmness of the foundation, thereby enabling larger and heavier loads and for the same reason greater ease in pleasure ve-

"The mixture of concrete should be a 1:2:4, mixed in a thickness of not less than four inches, and advancing in depth of structure as the traf-fic of a given street requires." "Taken from report of Dr. E. H. Mc-

Callister, dean of the engineering

school of the University of Oregon.

Saturday's conclusion of the taking of evidence in the house investigating committee of the legislature was occupied principally by David M. Kupihea, a member of the lower made against him and his wife testi-

fied about the same as her husband. Lerrin Andrews, Katolhea's atterney, finished the hearing by delivering a denunciation of 'ircuit Judge Ashcrete. Four inches of concrete will ford, whose charges against Kupilica "Five of the most important roads stand a greater strength than six the committee has been probing. The leading out of Chicago are to be im- inches of macadam. On an average, atterney charged that the judge used his office to make a vicious and unwarranted attack upon the "honorable member from the fifth district." One "Taken from report of Austin B. feature of Saturday's proceedings was the testimony of Joseph Girard, a sol-"'For a large portion of the roads dier, who was called just before the farming sections and extending to the commission has adopted a pave- defense commenced introducing eviment consisting of a Portland cement dence.

Girard termed himself an interested inches and 15 feet wide, with shoulspectator. He said he had visited the ders at least three feet wide on each Kupihea home on several occasions faced with concrete eight and a half side of the concrete. The concrete with other soldiers and at the request base is covered with a thin coating of and invitation of Kupihea. He said asphaltic oil and stone screenings, that Kupihea took them to the deroads were let to Bent & Pennybaker forming a bituminous carpet from % tached cottage on the first visit with to 1/2-inch in thickness to serve as a lantern and that at this cottage only wearing surface, and to protect the a screen door separated the reception room from the rooms where the girls "'In the environs of San Francisco slept. He corroborated the testimony thicker base wearing surfaces are spe- of French Oldham and William Bradother streets six, five and four inches cified and running from 15 to 24 feet brook, the two soldiers convicted on a statutory charge in connection with "'Roads under contract August 1, Kupihea's daughter and niece.

He claimed further that he had seen Cost Cost the soldiers on various occasions make per sq. free use of the sleeping room occupied Miles. mile yd. by the girls and that Kupihea handed the key to the soldiers in his presadam 7.6 \$ 4303 0.489 ence. Girard said that Kupihea re-Bituminous macadam.19.1 6364 0.723 fused to take any pay for the use of

Asphalt macadam...11.5 8403 0.716 lic as good roads. This same statement might also be said of the whole base 6.6 14,920 1.06 of North America.

"Los Angeles has spent millions on on concrete base..198.1 6394 0.712 "Some contractors have called the good roads, experimenting with this roads painted concrete and insisted and that, only now to positively and that the asphaltic surfaces should be definitely return to the fact that connot less than two inches in thickness, crete roads, concrete streets and conconsisting of either the sheet asphalt crete paving is the only satisfactory road to build, the only road whereby "'And the commission has conclud- the taxpayer gets what he pays for, ed to continue with the thin surface, the only road that will give an en-

"The thick surface would cost "Practically every engineer and more than ten times as much as the read builder in California today is original cost of the thin surface, and agreed that concrete is the only good seems probable that the interest on road, that the days of oil macadam the excess cost will pay the cost of have gone. This experimenting with oil macadam has been a mighty ex-"There is no one question in all Cali- pensive tryingout for the taxpayers of ornia which is so interesting the pub- Los Angeles.

the cottage, although it had been of trochus shell for button making. fered to him. Girard described the four-day juau given Christmas week the boozs purchased by the soldiers.

SHELLS FIRED IN TAHITI

capital of Tahiti, by the Ger. the advisability of operating a cutting man cruiser Scharnhorst in the factory here. bombardment of that city before the cruiser was sunk off the Falkland HOLBRON CASE STARTS islands, are on display in the promotion committee window. The war relics were loaned to the promotion committee by W. P. Cottrell, of McKee branch of the legislature, in pre- and Bliven Button Co., at Muscatine, Jr., to six months in the Oahu prison a 4 per cent grade; how far has he where he inspected paving last fail. tion of power traction, including senting his side of the case. Kupihea lowa, who has spent some time in the for statutory offense last week, the come, and will me have to get off and entered denial of almost every charge South Sea Islands seeking a supply of federal authorities found the plot be- walk?-Cornell Widow,

Mr. Cottrell, who arrived on the arrests followed as a result. possibility of establishing a schooner plaint of Holbron to answer a similar Pieces of shell fired into Papeete, connection from Honolulu, and also charge.

CHAIN OF ARRESTS

After sentencing Robert Holbron lem: A man on a bicycle

gan to thicken and a series of five Makura, found many places where Jeff McCarn ordered the women in and said that Kupihea helped drink trochus shells were abundant, such the case, Annie K. Kauhini, arrested as the Gilbert and Marshall islands, after her evidence in defense of Hol 900 miles south of Hawaii. However, oron, and since then her husband, Kathe transportation of the gathered hae Kauhini, and Mary Jones have shells is a problem for there are no been arrested on a statutory charge, vessels plying between here and Esther Holbron, Holbron's wife, and PLACED ON EXHIBIT HERE those islands. He will investigate the Joe Terry were arrested on the com-

> Physics Instructor-Name the unit of power, Mr. Jones, Jones (waking up)-The what? Instructor-Correct. Any questions? All right. We have a few minutes before the end of the hour in which we will do this prob-

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in full assortment of styles and sizes, came on the "Kentuckian"--and are now ready for YOU, Mr. Man

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%-in. wearing surface

renewing the thin surface."

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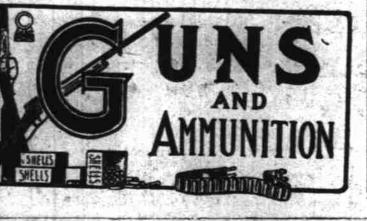
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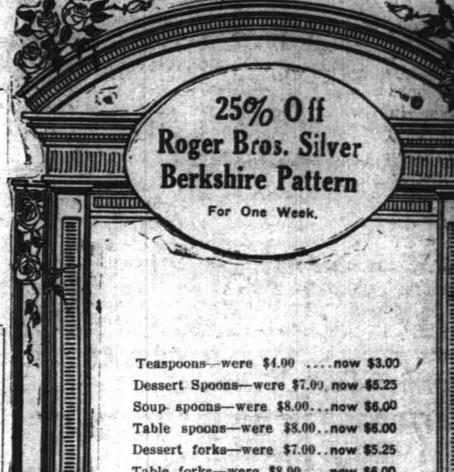


Table forks-were \$8.00 now \$6.00 Sugar shells-were 85c....now \$0.60

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Dessert spoons now 30c each Table spoonsnow 40c each

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